



U.S. Department
of Transportation
**Pipeline and
Hazardous Materials
Safety Administration**

**IAEA CERTIFICATE OF COMPETENT AUTHORITY
SPECIAL FORM RADIOACTIVE MATERIALS
CERTIFICATE USA/0721/S-96, REVISION 1**

400 Seventh Street, S.W.
Washington, D.C. 20590

This certifies that the sources described have been demonstrated to meet the regulatory requirements for special form radioactive material as prescribed in the regulations of the International Atomic Energy Agency¹ and the United States of America² for the transport of radioactive material.

1. Source Identification - QSA Global, Inc. Models X10 and X10/2 (Manufactured on or after June 22, 1977).
2. Source Description - Cylindrical single encapsulations made of stainless steel and tungsten inert gas or laser seal welded. Approximate outer dimensions are 8.1 mm (0.32 in.) in diameter and 5.4 mm (0.21 in.) in length. Minimum wall thickness is 0.2 mm (0.004 in.). Construction shall be in accordance with attached AEA Technology QSA, Inc. Drawing No. RBA11049, Rev. A.
3. Radioactive Contents - No more than 1.85 GBq (50.0 mCi) of either Americium-241 or Curium-244. The Am-241 and Cm-244 are in the form of an oxide incorporated into a ceramic enamel.
4. Quality Assurance - Records of Quality Assurance activities required by Paragraph 310 of the IAEA regulations¹ shall be maintained and made available to the authorized officials for at least three years after the last shipment authorized by this certificate. Consignors and consignees in the United States exporting or importing shipments under this certificate shall satisfy the requirements of Subpart H of 10 CFR 71.
5. Expiration Date - This certificate expires on November 30, 2010.

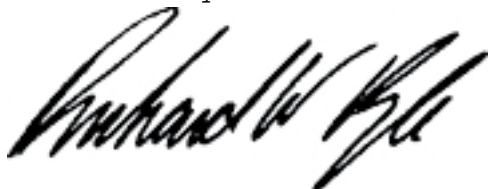
¹ "Regulations for the Safe Transport of Radioactive Material, 1996 Edition (Revised), No. TS-R-1 (ST-1, Revised)," published by the International Atomic Energy Agency(IAEA), Vienna, Austria.

² Title 49, Code of Federal Regulations, Parts 100-199, United States of America.

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This certificate is issued in accordance with paragraph 804 of the IAEA Regulations and Section 173.476 of Title 49 of the Code of Federal Regulations, in response to the April 10, 2006 petition by QSA Global, Inc., Burlington, MA and in consideration of other information on file in this Office.

Certified By:



Apr 20 2006

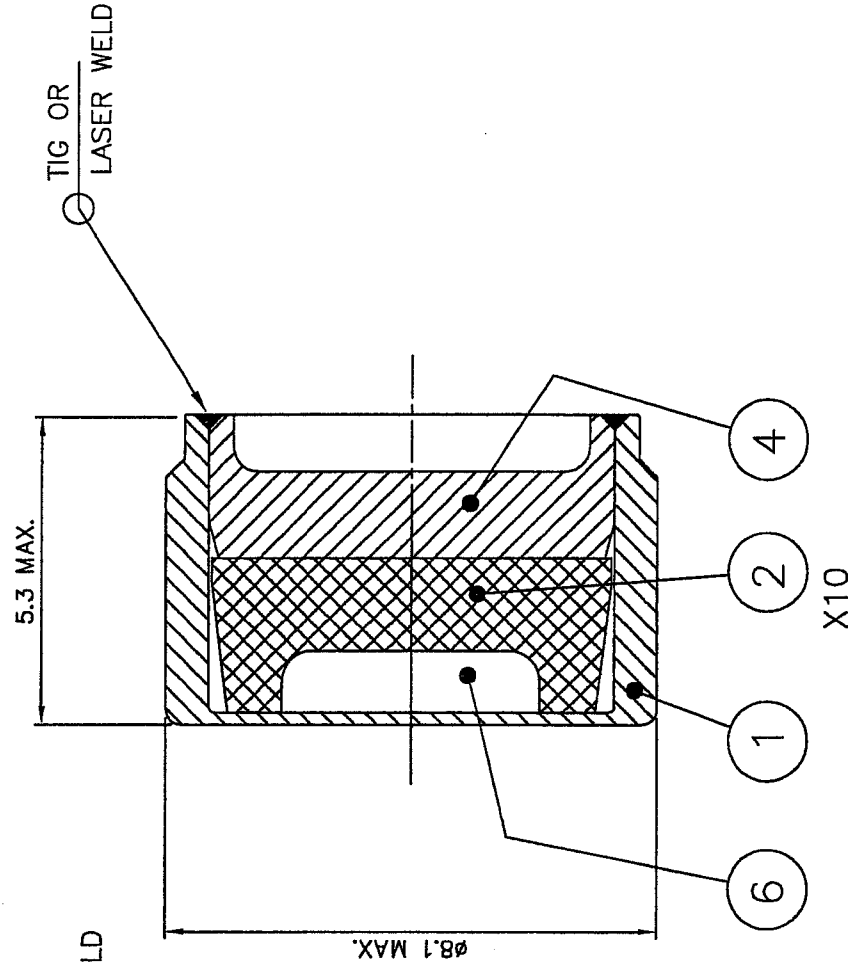
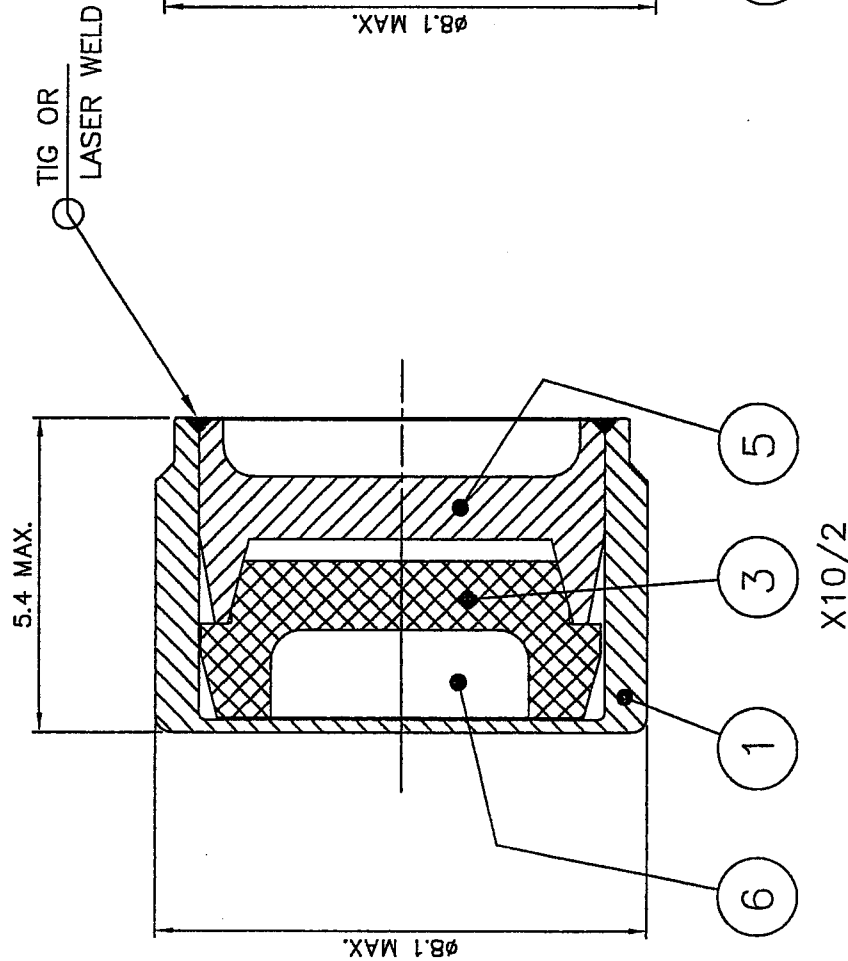
(DATE)

Robert A. McGuire

Associate Administrator for Hazardous Materials Safety

Revision 1 - Issued to update tolerances for the Model X10/2 capsule lid.

Item No	Description	No off
1	BODY	1
2	X10 INSERT	1
3	X10/2 INSERT	1
4	X10 LID	1
5	X10/2 LID	1
6	ACTIVE MATERIAL	A/R



APPROVALS <i>J.P. Pin</i> 3 Nov 07 <i>R.P. Lee</i> 3 Nov 07		AEATECHNOLOGY QSA 40 NORTH AVE, BURLINGTON, MA 01803		DESCRIPTIVE DRAWING	
TITLE X10 & X10/2 CAPSULE ASSEMBLY					
SIZE DWG. NO. RBA11049		SCALE: NONE		REV A	
ERF # 1178		SHEET 1 OF 1			

DIMENSIONS IN MILLIMETERS
 UNLESS OTHERWISE STATED TOLERANCES:
 X ±0.5
 X.X ±0.1
 X.XX ±0.05
 ANGULAR ±5°
 INTERNAL ☒ N/A
 EXTERNAL ☒ N/A